

Altitude CM-3100 HD Mini-Dome Camera

High Definition/Megapixel Network Fixed Cameras



- **H.264/MPEG-4 Video**
- **Up to 30 FPS**
- **1.3 Megapixel/HD720p**
- **Wide Dynamic Range**
- **Bi-directional Audio**
- **SD Slot Available**
- **1 Alarm Inputs / 1 Relay Output**
- **Unicast or Multicast**
- **Vandal Resistant Bubble and Housing**
- **Surface Mount (Standard), Recessed, Corner and Pendant Mount options**
- **12VDC/24VAC and PoE Power Options**
- **IP66/NEMA 4 Rated**
- **Web Interface for Viewing, Configuration and Control**

1/3 Inch CCD High Definition H.264 / MPEG4 Day/Night Camera with Wide Dynamic Range

The Altitude CM-3100 series are high definition resolution, fixed mini-dome IP cameras which incorporate a high-resolution, fully digital front end CCD imaging system and comes standard as a surface mount with a 3.3-12mm Day/Night option with a mechanical IR cut filter for infrared sensitivity, Wide Dynamic Range, and a list of mounting options for performance in most environments.

The Altitude CM-3100 cameras are ideal in both indoor and outdoor installations and all types of environments. This camera is the preferred choice for use in Airports, Detentions/Prisons, Municipal applications, Seaports, Tollway/Traffic installations and more

Reduced installation costs and more consistent results - the CM-3100 features a unique no-tools modular snap-in chassis and fully automatic image quality settings. These features provide the highest image quality and consistent project results at the lowest possible installation costs.

The camera provides video streams in both H.264 and MPEG-4 (ISO) for up to 30 Frames Per Second (FPS) on one stream for viewing and recording with 100% image quality. This affords excellent image response and efficient bandwidth utilization.

In addition, DVTEL's Scene Adaptive Algorithms provide the highest image quality at the lowest bandwidth and storage requirements.

Bi-directional audio is available for users to remotely listen in to the area surrounding the camera and communicate with visitors or intruders.

IEEE compliant, the entire Altitude Series of network cameras utilize the latest in multicast networking technology which enables a single stream to be transmitted to multiple viewers on the network simultaneously, further reducing bandwidth and providing more flexibility options for installation.

Power over Ethernet supplies power to the camera via the network, eliminating the need for additional cabling and reducing installation costs.

DVTEL offers a full line of IP cameras and encoders to meet your every need. Please see our IP Camera and Encoder Family Guide at www.dvtel.com/products/edge-devices to explore your options.

Altitude CM-3100 Series

Network High Definition Mini-Dome Cameras

General Specifications

Camera	Day/Night Color and WDR
Image Sensor	1/3" Sony WDR 1.3MP CCD
Sensor Resolution	1.3MP 1280 x 960
Scanning Mode	Progressive
Sensitivity	Color: 0.2 Lux @ F1.4 / Night Mode: 0.03 Lux @ F1.4
Lens Type	Vari-focal 3.3-12mm F1.4 Auto-iris Horizontal Viewing Angle: 24-90 degrees
Digital Slow Shutter (DSS)	1.5 to 1/10,000 with up to 32x Sensitivity Boost in Color or Night Mode
White Balance	Auto (On/Off)
Automatic Gain Control (AGC)	On/Off
Backlight Compensation (BLC)	On/Off
Automatic Electronic Shutter (AES)	1.5 to 1/10,000 (Auto)
Digital 3D Noise Reduction	On/Off
Iris Control	DC Auto
Day/Night Mode	Auto / On/Off
WDR	Yes / On/Off - 4 Levels
Mechanical IR Cut Filter	Yes
IR Sensitivity	Yes: 680 – 1100nm
Signal to Noise Ratio (SNR)	≥50dB
Video	
Compression	Fully Compliant H.264 / MPEG4 (MPEG4-Part 2 & 10)
Frame Rate	30 FPS @ 1280 x 720 (HD720p)
Resolution Range	Scalable from CIF to 1280 x 960
Bandwidth	Configurable between 64 Kbps and 6 Mbps
Audio	
Bi-directional Audio	Line In/Mic In/Line Out - G.711 and G.726
Audio Connections	Terminal block
Communication	
Network Protocols	Transport: RTP (Unicast/multicast), UDP (Unicast/multicast), TCP Others: DNS, HTTP server, IGMP V1/V2, Telnet client and DHCP client
Ethernet	10/100 Base-T Auto sensing, Half/Full Duplex (RJ45)
Configuration	Remote: Via Web Access, or Supported Video Management Software
Firmware Upgrade	Flash memory for upgrade of camera firmware over the network
Regulatory	
USA	FCC part 15 (subpart B, class A) UL
Europe	CE marked, EN55022-1998 Class A, EN55024
Warranty	
	2-year limited warranty, covering parts

Accessories - See Price Guide for Complete List

CX-SMOKE-0	Smoked Bubble	CX-ARMX-0	Short Wall Bracket
CM-RCSD-0	Recessed Kit	CX-ARMX-1	Long Wall Bracket
CX-TRIA-0	Interior Corner Mounting Kit	CX-SWAN-0	Swan/Roof Mount
CM-CAPX-0	Pendant Kit	CX-POLE-0	Pole Bracket

Camera Ordering Information

Type	Series	Resolution in MP	Intelligence Package	Imager Package	Option 1
CM	-	3	1	1	1
Mini-Dome Camera	-	3 = HD-Classic Series	1	1 = 1.3MP	1 = Intelligent Multi-Zone VMD
				0 = D/N 3.3-12mm	1 = Indoor/Outdoor



Altitude CM-3100 Series

Other Specifications

Alarm	
Input	Input 1 dry contacts
Output	1 Relay Contact, 60V AC/DC at 1000mA max.
Physical	
Enclosure	Vandal Aluminum Casting with Polycarbonate Bubble Compatible with 4S Electrical Box Mounting
Dimensions (dia x H)	148mm diameter x 135mm height 5.8" diameter x 5.3" height
Unit Weight	2.0 Lbs. (0.9Kg)
Unit Shipping Weight	2.6 Lbs. (1.2Kg)
Mechanical	
Bubble Rating	Vandal Resistant Polycarbonate
Bubble F-Stop	F0.0: Clear bubble F1.0: Smoke bubble (option)
Pan, Rotate and Tilt	360, 360 and +/-90 deg
Electrical	
Input Voltage	12VDC/24VAC ±10% or 802.3af PoE or 802.3at PoE+ (recommended outdoor)
Power Consumption	7.5W
Power Connector	AC/DC Terminal block or PoE
Environment	
Operating Temperature	-22°F to 122°F (-30°C to 50°C)
Storage Temperature	32° F to 140° F (0° C to 60° C)
Humidity	90% (non-condensing)
Ratings	IP66 and NEMA 4